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ĺ	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/717,931	11/21/2003	Jong Ho Kim	9988.077.00-US	7547
		7590 12/20/2000 ONG & ALDRIDGE L	EXAMINER		
1900 K STREET, NW				RIGGLEMAN, JASON PAUL	
WASHINGTON, DC 20006				ART UNIT	PAPER NUMBER
				1746	
	SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	. DELIVERY MODE	
	3 MOI	NTHS	12/20/2006	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)	<i></i>		
		10/717,931	KIM ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Jason P. Riggleman	1746			
Period for	The MAILING DATE of this communication a Reply	ppears on the cover sheet wi	th the correspondence a	ddress		
WHICH - Extension after SIX - If NO pe - Failure to Any repl	RTENED STATUTORY PERIOD FOR REPEVER IS LONGER, FROM THE MAILING ons of time may be available under the provisions of 37 CFR of (6) MONTHS from the mailing date of this communication. It is provided to reply is specified above, the maximum statutory period or epply within the set or extended period for reply will, by state by received by the Office later than three months after the main statent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a red d will apply and will expire SIX (6) MON ate, cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this ANDONED (35 U.S.C. § 133).			
Status		•				
1)□ R	esponsive to communication(s) filed on			•		
-		is action is non-final.				
<i>'</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is					
-	osed in accordance with the practice under					
Disposition	n of Claims					
4)⊠ C	4) ☐ Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.					
•—						
	laim(s) is/are allowed.	•				
6)⊠ C	laim(s) <u>1-7</u> is/are rejected.					
7)□ C	laim(s) is/are objected to.		•			
8)∐ C	laim(s) are subject to restriction and	or election requirement.				
Application	n Papers					
9)⊠ Tr	e specification is objected to by the Exami	ner.				
10)⊠ Th	☑ The drawing(s) filed on <u>21 November 2003</u> is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.					
A	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
· R	eplacement drawing sheet(s) including the corre	ection is required if the drawing((s) is objected to. See 37 (CFR 1.121(d).		
· 11) 🔲 Th	e oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form F	'TO-152.		
Priority un	der 35 U.S.C. § 119					
•	2)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:					
•	Certified copies of the priority docume	nts have been received.				
	☐ Certified copies of the priority docume		pplication No			
	☐ Copies of the certified copies of the pr		•	al Stage		
	application from the International Bure	•		-		
* Se	e the attached detailed Office action for a li	st of the certified copies not	received.			
				•		
				-		
Attachment(s		"	(DTO 445)			
	f References Cited (PTO-892) f Draftsperson's Patent Drawing Review (PTO-948)		ummary (PTO-413) i)/Mail Date			
3) 🔯 Informat	ion Disclosure Statement(s) (PTO/SB/08) o(s)/Mail Date <u>6/24/2005</u> .	5) Notice of In	formal Patent Application			

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DETAILED ACTION

Drawings

1. Figures 1-2 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

2. Applicant is reminded of the proper content of an abstract of the disclosure.

A patent abstract is a concise statement of the technical disclosure of the patent and should include that which is new in the art to which the invention pertains. If the patent is of a basic nature, the entire technical disclosure may be new in the art, and the abstract should be directed to the entire disclosure. If the patent is in the nature of an improvement in an old apparatus, process, product, or composition, the abstract should include the technical disclosure of the improvement. In certain patents, particularly those for compounds and compositions, wherein the process for making and/or the use thereof are not obvious, the abstract should set forth a process for making and/or use thereof. If the new technical disclosure involves modifications or alternatives, the abstract should mention by way of example the preferred modification or alternative.

The abstract should not refer to purported merits or speculative applications of the invention and should not compare the invention with the prior art.

Where applicable, the abstract should include the following:

- (1) if a machine or apparatus, its organization and operation;
- (2) if an article, its method of making;
- (3) if a chemical compound, its identity and use;
- (4) if a mixture, its ingredients;
- (5) if a process, the steps.

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Extensive mechanical and design details of apparatus should not be given.

3. The abstract of the disclosure is objected to because the length exceeds the 150-word maximum. Correction is required. See MPEP § 608.01(b).

4. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 112

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:
The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 6. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is unclear how the method is provided with a door, especially.
- 7. The claims are generally narrative and indefinite, failing to conform with current U.S. practice. They appear to be a literal translation into English from a foreign document and are replete with grammatical and idiomatic errors.
- 8. Regarding claim 1, the phrase "opened/closed" renders the claim(s) indefinite thereby rendering the scope of the claim(s) unascertainable.
- 9. Claim 1 recites the limitation "the" in "most recently sensed wet laundry amount".

 There is insufficient antecedent basis for this limitation in the claim.
- 10. Claims 3-4 recites the limitation "an" in "abnormal". It is unclear if this is the same as the "abnormal" recited in claim 1.

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11. The term "abnormal" in claims 1 and 3-4 and "predetermined" in claims 3-6 are relative terms which renders the claims indefinite. The term "abnormal" and "predetermined" are not defined by the claims, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. For purposes of examination, the term "abnormal" is assumed to be any opening of the door during the washing cycle since washing machines conventionally perform the washing cycle with the door closed.

- 12. Claim 5 recites the limitation "the" in "end" and "predetermined point". There is insufficient antecedent basis for this limitation in the claim.
- 13. Claim 6 recites the limitation "said" in "wash cycle resetting step". There is insufficient antecedent basis for this limitation in the claim.
- 14. Claim 5 recites the limitation "the" in "predetermined time period". There is insufficient antecedent basis for this limitation in the claim.
- 15. Claim 6 recites the limitation "said" in "wash cycle resetting step". There is insufficient antecedent basis for this limitation in the claim.
- 16. The term "most recently" in claim 1 is a relative term which renders the claim indefinite. The term "most recently" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. For purposes of examination, "most recently" is assumed to be either the first wet laundry amount or second wet laundry amount.

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Claim Rejections - 35 USC § 102

17. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 18. Claims 1-7 are rejected under 35 U.S.C. 102(b) as being unpatentable by Harwood et al. (US Patent No. 5768728).
- Harwood et al. teaches a laundry washing machine with a door and a method for 19. controlling the washing based on a sensed laundry amount. The method senses an initial dry laundry amount after initiating a wash cycle, senses a second wet laundry amount upon detection of an abnormal open state of the door during the wash cycle (Column 9, Lines 25-40), and controls the wash course based on the sensed second wet laundry amount. The opening of the door (lid) during the wash cycle is sensed and repeats the determination of the laundry amount (Column 9, Lines 25-40). The first wet laundry amount-sensing step is repeated (after 1 minute duration, for example) to uniformly distribute clothes (Column 9, Lines 3-13) and verify determination hence providing more accuracy (Column 9, Line 60). The wash cycle is reset if the abnormal open state of the door occurs before a predetermined point of the wash cycle --- the end of the wash cycle. The wash cycle is divided into three predetermined time intervals the "sense agitate", the "mix-up agitate", and the "true agitate" intervals (Column 9, Lines 0-65). The laundry washing machine constantly monitors the laundry load amount and can sense an abnormal open state of the door at any point in the washing

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cycle; therefore, it senses an abnormal open stat of the door during a predetermined sensing point.

Conclusion

20. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Won (US Patent No. 5987679), Thuruta et al. (US Patent No. 4779430), Moon (US Patent No. 5671493). All of these, in addition to the ASA, Admitted State of the Art, provided by the applicant in the IDS, Information Disclosure Statement, teach a washing machine method for sensing a laundry amount at various periods in the washing cycle. There are additional examples of art not listed that are relevant to the claims as written.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason P. Riggleman whose telephone number is 571-272-5935. The examiner can normally be reached on M-F, 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on 571-272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jason P Riggleman Examiner Art Unit 1746

JPR

MICHAEL BARR SUPERVISORY PATENT EXAMINER